

don't crack under pressure

The PE 100+ Association: Quality at the highest level



Introduction

- Industrial organisation of several PE manufacturers
- Guarantee consistent and highest quality of PE 100 pipe compounds
- PE 100+ Association Positive List of Materials
- Marketing platform to promote the use of PE piping

PE 100 an excellent pipe material

- PE has been a reliable pipe material for more than 40 years
- In 1990 introduction of a new pipe class: PE 100
- Today PE 100 stands for:
 - high quality in pressure piping material
 - safe transport of drinking water, natural gas and other industrial fluids
- PE 100+ is **not** a new performance class

Three fundamental properties

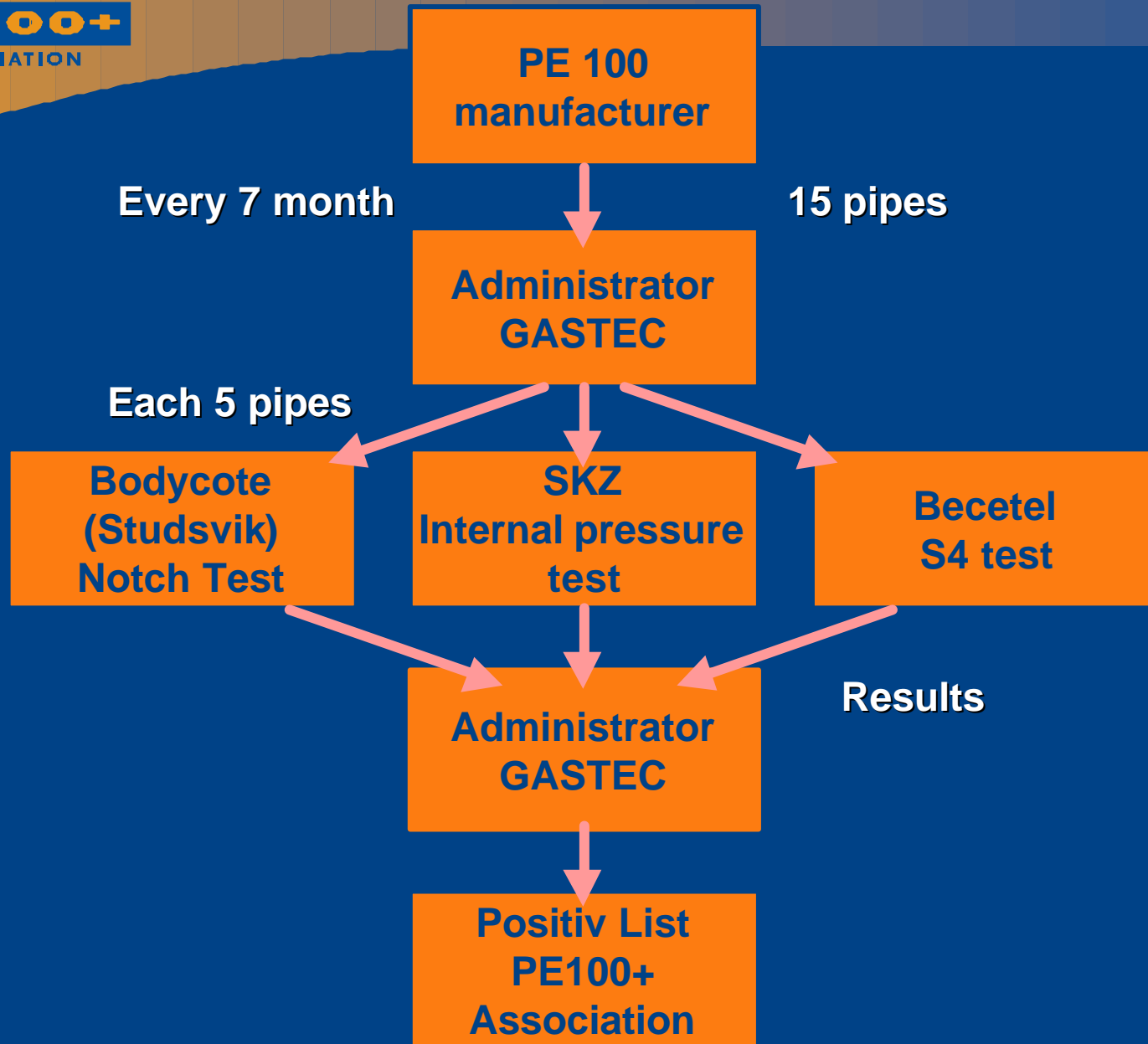
- Creep rupture strength
- Stress crack resistance
- Resistance to rapid crack propagation

Regular independent control and higher requirements offer a plus in terms of quality

PE 100+ requirements are higher

Property	Test Method	EN/ISO Standard requirement	PE 100+ requirement
Creep Rupture Strength	Internal pressure test at 20°C and 12,4 MPa ISO 1167	> 100 h	> 200 h
Stress Crack Resistance	Pipe notch test at 80°C and 9,2 bar ISO 13479	> 165 h	> 500 h
Resistance to Rapid Crack Propagation	S4 test at 0°C ISO 13477	$P_c > MOP/2,4 - 13/18$ P _c : critical pressure MOP: max. operat. pressure	> 10 bar

All tests are performed on 110 mm SDR 11 pipes



PE 100+ Association Positive List of Materials

Material	Manufacturer
Finathene® XS 10 H (blue)	Atofina
Hostalen® CRP 100 black	Basell Polyolefine GmbH
HE 3490 (black)	Borealis AB
Eltex® TUB 121 (black)	Solvay Polyolefins Europe

List valid until february 2001

Structure of the Association

- Member meeting: all the manufacturers of listed pipe materials and the administrator (Gastec)
- Board of Directors: operational board
 - Chairman: A. Scheelen, Solvay
 - Secretary: V. Lackner, Basell
 - Treasurer: B. Berndtson, Borealis
 - Adv. Com.: C. Bertrand, Atofina
 - (Marketing and promotion: M. Tauber, Borealis)
- Advisory committee: market guidance and feedback
- Technical committee: test institutes

Marketing platform to promote PE

- Seminar rounds in different european countries
 - Germany, Poland and France were done
 - Spain and Italy are current in preparation
- Web-side: www.pe100plus.net